95°C in water. USE As a dehydration, flocking	Aqueous dispersion for papermaking comprises water-soluble N-95°C in water. vinyl formamide and/or N-vinyl acetamide polymers and an incompatible polymer dispersant C2000-110922 As a dehy Addul. Data: NEGELE A, GAUWEILER W, MEIXNER H, MAHR N,	Aqueous dispersion for papermision vinyl formamide and/or N-vin incompatible polymer dispersant C2000-110922 Addul, Data: NEGELE A, GAUWE	queous anspers inyl formamid icompatible pol C2000-110922 ddnl. Data: NE
above dispersions by radically	21/18	26/00, D21H 17/34, 21/10, 21/18	26/00, D21
AOC.)	1998.11.05 1998-1051024(+1998DE-1051024) (2000.05.11) C08F	1998-1051024(+	1998.11.05
*DE 19851024-A1 A(2-A3, 4-D, 7-D3, 10-D3, 12-	*DE 19851024-A1		BASF AG
ACA 52 4 D 7 D2 10 D5 13	A14 F09 (A97) BADI 1998.11.05		2000-366819/32

NOVELTY

RUEBENACKER M

Aqueous dispersion of water-soluble N-vinyl formamide and/or Nvinyl acetamide polymers comprises:

(a) 5-80 pts. wt. of a polymer of average particle size 50 nm to 2 micron and comprising N-vinyl formamide and/or N-vinyl acetamide

(b) 1-50 pts. wt. of a polymer dispersant that is incompatible with (a) in aqueous solution; and (c) 100 pts. wt. water.

An INDEPENDENT CLAIM is included for the production of the DETAILED DESCRIPTION

-W6B, 12-W12C) F(5-

polymerizing the components at 30-

breaking limit material and fixer in paper production (all claimed).. ig or retention agent, wet and dry

ADVANTAGE

The properties of the obtained paper are improved.

SPECIFIC MATERIALS

converted to give a (partially) vinyl amine unit-containing polymer by (a) is an N-vinyl formamide homopolymer and the units are acid or base hydrolysis.

EXAMPLE

212 g of a dispersion prepared from 1200 g water, 5 g Na dihydrogen phosphate dihydrate, 150 g polyvinyl pyrrolidone, 150 g polyethylene glycol, 500 g N-vinyl formamide and 2.5 g 2,2'-azobis-DE 19851024-A+

Preferred Process: The preparation is at 40-70°C and is in the presence (2-aminopropane)dihydrochloride in 100 g water (solids content 41%, viscosity 3075 mPa.s, K value 138, residual N-vinyl formamide 0.2%) was mixed with 2.8 g HCl and reacted to give a polymer with 8.5% vinyl amine units (viscosity 4800 mPa.s, average particle size 200 nm, of 0.001-5.0 (05-2.0) wt.% azo compounds (claimed). Preferred Composition: The dispersion contains 10-50 pts. wt. (a) and mol. wt. 500,000). When used at 0.08% in papermaking, the water removal time was 23 s, cf. 28 s with a polyamideamine according to polypropylene glycol, ethylene glycol/propylene glycol copolymer, PVA, PVOH, polyvinyl pyridine, polyvinyl imidazole, polyvinyl succinimide, polydiallyl dimethyl ammonium chloride and/or Polymers - Preferred Components: (b) is polyethylene glycol, polyethylene imine (claimed). 5-40 pts. wt. (b) (claimed). TECHNOLOGY FOCUS (8pp2522DwgNo.0/0) US 4144123.

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